PIN PROGRAMABLE: INSTRUMENTATION AMPLIFIERS

Pin Programable																AD624							
MODEL	AD524		AD524	AD524	1		AD62	1 AD621 AD621		D621			AD624	AD	AD624		AD624			AD626			
						`emp					Ten								emp	GAIN		Temp	
					Range					R		ange							ange		NGE V=Vss	Range -45C	
		SAIN			-25										GAIN			-25		@ +5V			
		ANGE			85	125		AIN			-45	-55			RANGI			85	125			+85C	
SPECIFICATION UNITS	1	10	100	1000			R	ANGE			85	125	1	100	200	500	1000			10	100		
								10															
GAIN ERROR ± % FS	0.05	0.25	0.50	2	A			0.15	0.15		A	S	1	1	1	1	1	A	S	1	1	A	
	0.03	0.15	0.35	1	В			0.05	0.05		В		0.50	0.35	0.25	0.25	0.50	В		0.6	0.6	В	
	0.02	0.10	0.25	0.5	C								0.25	0.15	0.10	0.10	0.25	C					
	0.05	0.25	0.50	2		S							0.05	0.03	0.02	0.02	0.05						
GAIN ERROR TC ± ppm/C	5	15	35	100				±5ppr					5	10	10	25	25			30	120		
NONLINEARITY ± %	0.01	0.01	0.01	0.01	A	S		10ppm o	f FS				0.005	0.001	0.001	0.001	0.001	A B	S	0.05	0.08	A	@100 Hz
	0.005	0.005	0.005	0.01	В								0.0035	0.001	0.001	0.001	0.001	C		0.03	0.03	В	@100 Hz
	0.003	0.003	0.003	0.01	C																		
CMRR	70	90	100	110	A	S		93	110		A	S	70	100	100	110	110	A	S	67	60		
	75	95	105	115	В			100	120		В		75	105	105	120	120	В		80	73		
	80	100	110	120	С								80	110	110	130	130	C					
				0.5					0 :-							0	0						
Small Signal -3 dB Mhz	1	0.40	0.15	0.025				0.80	0.12				1	0.40	0.15	0.025	0.025			0.1	0.1		
Settling Time .01% usec	15	15	15	75				15	15				15	15	15		75			24			
Slew Rate V/usec								0.75										-		0.17	0.1		
VOLUM OF VOICE																							
VOLTAGE NOISE			0.00	0.00										0.0					-				
RTI @ .1 to 10Hz uV pp	15	2	0.30	0.30				0.00	0.10				10	0.3	0.2	0.2	0.2			2			
RTI @ 10 Hz nV/ Hz								0.80	0.40										-				
RTI @ 100 Hz nV/ Hz									0.7					-					-	0.25			
RTI @ IK Hz nV/ Hz								0.7	0.7					4					-	0.25			
RTO @ 1K Hz nV/ Hz	: 90													75					-				
CUDDENT MOICE																							
CURRENT NOISE RTI @ .I to 10Hz pA pp	60							0.1	0.1					60					-				
RTI @ .I to 10Hz pA pp	00							0.1	0.1					00					-				
RTO error at 25C=GxRTI+RTO	5.25mV	7.5mV	30mV	255mV				2.5mV	25mV		A	S	5.2mV	25mV	45mV	105mV	205mV	A		5mV	50mV	A	@ ±5=Vss
ATO CITO AL 250-GARTITATO	3.1mV	4mV	13mV	103mV					12.5mV		В		3.075mV	10.5mV		40.5mV		В	S		25mV	В	@ ±5=Vss
	2.05mV	2.5mV	7mV	52mV				1.231114	12.5111		ь		2.025mV			14.5mV		_		2.5111 4	231114		@ ±3= 1 33
	2.03111	2.51114	71111	32m •									2.025111	7.0111	7111 4	1-4.5111 (271114						
OFFSET VOLTAGE	RT	RTI		D			RTI RTO					RTI	RTI		RTO				RTI				
	+25C	Ta	+25C	Ta			+25C	Ta	+25C	Ta			+25C	Ta	+25C					+25C			
	uV	uV/C	mV	uV/C			uV	uV/C	mV	uV/C			mV	uV/C	mV	uV/C				mV	uV/C		
	250.00	2	5	100	A		250	15			Α	S	0.200	2	5	50		A		2.5	6	A/B	@ +5=Vss
	100.00	0.75/2	3	50	В	S	125	7			В		0.075	0.5/2	3	25		В	S	0.5	0.5		
	50.00	0.50	2	25	C								0.025	0.25	2	15		С		0.25	0.25		
	I bias	6	I off	set			Ibias		I offs	set			I bias		I of	ffset							
BIAS/OFFSET CURRENT	+25C	Ta	+25C	Ta			+25C	Ta	+25C	Ta			+25C	Ta	+25C	Ta							
	nA	pA/C	nA	pA/C			nA	pA/C	nA	pA/C			nA	pA/C	nA	pA/C							
	50	100	35	100	A	S	2	2.5	1	1.5	Α	S	50	100	35	100	A	S					
	25	100	15	100	В		1	1.5	0.5		В		25	100	15	100	В						
	15	100	10	100	C								15	100	10	100	C						
OUTPUT SWING	± 10V @												± 10V @ 5								to +36V		
POWER SUPPLY	± 6 to ±1	8 V @ 6r	nA				±2V to ±	8 @ 1.3mA					± 6 to ±18	± 6 to ±18 V @ 5mA							A @ Av		
		1481											16 D: 1 : ::						Iq= .29mA @ A				
PACKAGES		eramic dij	p				8 Pin plastic dip							16 Pin plastic dip						8 Pin plastic dip			
	20 LCC	20 LCC					8 Pin SOI						16 Pin cer	amic dip						8 lead S			
							8 Pin Cer	dip						1						Tape @	Reel		
	A=	\$10.89											A=	\$13.09									
	B=	\$17.10							A= \$4				B=	\$21.45						A=	\$3.35		
	C=	\$27.50							B= \$6	.75			C=	\$32.13						B=	\$4.57		